

**EAST Search History****EAST Search History (Prior Art)**

| Ref # | Hits | Search Query   | DBs   | Default Operator | Plurals | Time Stamp          |
|-------|------|--|---|------------------|---------|---------------------|
| L1    | 591  | microscopic surface<br>structure grooves<br>orientation direction<br>spatial frequency | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | AND              | ON      | 2010/02/11<br>11:39 |
| L2    | 1    | microscopic surface<br>structure grooves<br>orientation direction<br>spatial frequency | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | SAME             | ON      | 2010/02/11<br>11:39 |
| L3    | 1712 | kurz.as.   | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | SAME             | ON      | 2010/02/11<br>11:40 |
| L4    | 1379 | brehm.in.  | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | SAME             | ON      | 2010/02/11<br>11:41 |
| L5    | 17   | geim.in.   | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | SAME             | ON      | 2010/02/11<br>11:41 |
| L6    | 0    | (4 5) and 3  | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | SAME             | ON      | 2010/02/11<br>11:41 |
| L7    | 56   | (4 5) and 3  | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2010/02/11<br>11:41 |

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|----|---------|---|--|----|----|---------------------|
| S1 | 28      | ("20010007703"   "20050087977"   "20050175807"   "20060028015"   "20070114789"   "20070196623"   "20070275204"   "5238269"   "5571587"   "6039356"   "6358587"   "6827373"   "7377996"   "7579076").PN. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/02/09<br>11:59 |
| S2 | 11591   | intaglio  | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/02/09<br>13:06 |
| S3 | 4753    | lines near inch   | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/02/09<br>13:06 |
| S4 | 2840836 | maximum   | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/02/09<br>13:06 |
| S5 | 0       | S2 with S3 with S4  | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/02/09<br>13:06 |
| S6 | 1265137 | lines near S2 inch  | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/02/09<br>13:07 |
| S7 | 2       | S2 with S6 with S4  | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/02/09<br>13:07 |
| S8 | 4983    | "lines per inch"  | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/02/09<br>13:07 |

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| S9  | 9      | S2 with S8   | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2010/02/09<br>13:07 |
| S10 | 790925 | resolution   | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2010/02/09<br>13:09 |
| S11 | 77     | S2 with S10  | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2010/02/09<br>13:09 |
| S12 | 10     | S6 same S11  | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2010/02/09<br>13:09 |
| S13 | 70835  | (line groove) near (mm<br>millimeter cm centimeter<br>inch in) | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2010/02/09<br>14:05 |
| S14 | 24     | S2 with S13  | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2010/02/09<br>14:05 |
| S15 | 19830  | (line groove) near (mm<br>millimeter cm centimeter<br>inch)    | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2010/02/09<br>14:05 |
| S16 | 13     | S2 with S15  | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2010/02/09<br>14:05 |
| S17 | 795038 | ".mu.m"  | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2010/02/09<br>14:11 |

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| S18 | 23237 | depth near2 S17        | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2010/02/09<br>14:11 |
| S19 | 39    | S2 same S18            | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2010/02/09<br>14:11 |
| S20 | 30    | S2 with S18            | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2010/02/09<br>14:11 |
| S21 | 3807  | laser near2 engrav\$3  | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2010/02/10<br>12:57 |
| S22 | 7131  | security near document | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2010/02/10<br>12:57 |
| S23 | 150   | S21 and S22            | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2010/02/10<br>12:57 |
| S24 | 390   | S22 with "4"           | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2010/02/10<br>12:57 |
| S25 | 15    | S22 with S21           | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2010/02/10<br>12:57 |
| S26 | 1711  | kurz.as.               | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2010/02/10<br>13:06 |

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| S27 | 1379 | brehm.in.  | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON                  | 2010/02/10<br>13:06 |
| S28 | 56   | S26 and S27  | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON                  | 2010/02/10<br>13:06 |
| S29 | 100  | (US-20060147993-\$).did.<br>or (US-4587152-\$ or US-<br>4861396-\$ or US-<br>4988223-\$ or US-<br>5484560-\$ or US-<br>5647279-\$ or US-<br>6110316-\$ or US-<br>4255150-\$ or US-<br>4603631-\$ or US-<br>4826565-\$ or US-<br>4876957-\$ or US-<br>4978980-\$ or US-<br>5221442-\$ or US-<br>5272979-\$ or US-<br>5340683-\$ or US-<br>5368894-\$ or US-<br>5595120-\$ or US-<br>5639536-\$ or US-<br>5718171-\$ or US-<br>5795376-\$ or US-<br>5849154-\$ or US-<br>5973777-\$ or US-<br>6029571-\$ or US-<br>6101347-\$ or US-<br>6164205-\$ or US-<br>6201041-\$ or US-<br>4270449-\$).did. or (US-<br>4272311-\$ or US-<br>4311095-\$ or US-<br>4311658-\$ or US-<br>4319525-\$ or US-<br>4327136-\$ or US-<br>4367171-\$ or US-<br>4396682-\$ or US-<br>4409040-\$ or US-<br>4420530-\$ or US-<br>4431724-\$ or US-<br>4492616-\$ or US-<br>4497249-\$ or US-<br>4507181-\$ or US-<br>4550681-\$ or US-<br>4572072-\$ or US-<br>4597993-\$ or US-<br>4608925-\$ or US-<br>4621576-\$ or US-<br>4774553-\$ or US-<br>4838164-\$ or US- | OR  | ON | 2010/02/10<br>14:42 |                     |

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|-----|---|--|---------------------------|----|-----|---------------------|
|     |   | 4864928-\$ or US-<br>4875636-\$ or US-<br>4903599-\$ or US-<br>4907508-\$ or US-<br>4933123-\$ or US-<br>4947183-\$ or US-<br>4970952-\$).did. or (US-<br>4975607-\$ or US-<br>4977417-\$ or US-<br>4976986-\$ or US-<br>4987014-\$ or US-<br>4993352-\$ or US-<br>5009161-\$ or US-<br>5188881-\$ or US-<br>5207158-\$ or US-<br>5233401-\$ or US-<br>5246252-\$ or US-<br>5268348-\$ or US-<br>5302937-\$ or US-<br>5304298-\$ or US-<br>5335870-\$ or US-<br>5337969-\$ or US-<br>5339732-\$ or US-<br>5343803-\$ or US-<br>5367367-\$ or US-<br>5406884-\$ or US-<br>5429051-\$ or US-<br>5435961-\$ or US-<br>5452655-\$ or US-<br>5454309-\$ or US-<br>5459546-\$ or US-<br>5463951-\$ or US-<br>5466482-\$ or US-<br>5468919-\$).did. or (US-<br>5469619-\$ or US-<br>5480138-\$ or US-<br>5518866-\$ or US-<br>5526742-\$ or US-<br>5548390-\$ or US-<br>5549778-\$ or US-<br>5565054-\$ or US-<br>5576073-\$ or US-<br>5579930-\$ or US-<br>5610641-\$ or US-<br>5611274-\$ or US-<br>5660919-\$ or US-<br>5665420-\$ or US-<br>5665985-\$ or US-<br>5672223-\$ or US-<br>5673623-\$ or US-<br>5684065-\$ or US-<br>5690029-\$ or US-<br>5704290-\$).did. |                           |    |     |                     |
| S30 | 1 | ("20070095224").PN.  | US-PGPUB;<br>USPAT; USOCR | OR | OFF | 2010/02/10<br>16:23 |

**EAST Search History (Interference)**

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**2/ 11/ 2010 12:34:43 PM**